

REMARKS/ARGUMENTS

Claims 22-38 are pending.

The Examiner indicated that claims 1 and 2 were rejected, allowed claims 17-21, and objected to claims 3-16. However, claims 1-21 were previously canceled with the Preliminary Amendment of September 15, 2003. A copy of the Preliminary Amendment is attached for the Examiner's reference.

Applicants respectfully request the Examiner to consider the pending claims, i.e., claims 22-38.

CONCLUSION

In view of the foregoing, Applicants believe all claims now pending in this Application are in condition for allowance. The issuance of a formal Notice of Allowance at an early date is respectfully requested.

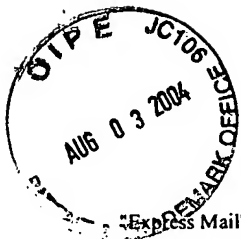
If the Examiner believes a telephone conference would expedite prosecution of this application, please telephone the undersigned at 650-326-2400.

Respectfully submitted,



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"Express Mail" Label No. EV 346 925 734 US

Date of Deposit September 15, 2003

PATENT
Attorney Docket No.: 16869P-019720US
Client Ref. No.: 339900354US1

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COPY

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Masuyuki Ohta, et al.

Application No.:

Filed:

For: LIQUID CRYSTAL DISPLAY
DEVICE

Customer No.: 20350

Examiner:

Technology Center/Art Unit:

PRELIMINARY AMENDMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Prior to examination of the above-referenced application, please enter the following amendments and remarks:

Amendments to the Specification begin on page 2 of this paper:

Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this paper.

Remarks/Arguments begin on page 6 of this paper.

Amendments to the Specification:

Please replace paragraph Cross-References To Related Applications with the following amended paragraph:

---This application is related to and claims benefit from Application No. 09/760, 385, filed January 11, 2001, which application is related and claims benefit from Japanese Patent Application No. 2000-003348, filed January 12, 2000.---

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1-21. Canceled.

22. (New) A liquid crystal display device comprising:

first and second substrates with a liquid crystal layer provided therebetween;
a plurality of lower electrodes and a plurality of upper electrodes formed on the

first substrate;

an insulating layer formed between the lower electrodes and the upper electrodes
to electrically isolate the lower electrodes from the upper electrodes;

wherein the lower electrodes include first and second lower electrodes assigned to
each pixel and spaced apart from each other to define a first space,

wherein the upper electrodes include first, second and third upper electrodes
assigned to each pixel and spaced apart from each other,

wherein a portion of the first lower electrode overlaps a portion of the first upper
electrode,

wherein a portion of the second lower electrode overlaps a portion of the third
upper electrode, and

wherein the second upper electrode is directly overlying the first space defined
between the first lower electrode and second lower electrode.

23. (New) A liquid crystal display device according to claim 22, wherein the first lower electrode is wider than the first upper electrode.

24. (New) A liquid crystal display device according to claim 23, wherein the second lower electrode is wider than the third upper electrode.

25. (New) A liquid crystal display device according to claim 24, wherein the first space formed between the first lower electrode and the second lower electrode is wider than the second upper electrode, so that a second space is defined between an edge of the first lower electrode and a first edge of the second upper electrode and a third space is defined between an edge of the second lower electrode and a second edge of the second upper electrode.

26. (New) A liquid crystal display device according to claim 25, wherein the lower electrodes are made of transparent conductive material.

27. (New) A liquid crystal display device according to claim 26, wherein the plurality of upper electrode are made of transparent conductive material.

28. (New) A liquid crystal display device according to claim 27, wherein the plurality of upper electrode and the plurality of lower electrode are arranged in parallel.

29. (New) A liquid crystal display device according to claim 28, wherein the first, second and third upper electrodes are connected to each other in each pixel, and the first and second lower electrodes are connected to each other in each pixel.

30. (New) A liquid crystal display device according to claim 29, wherein a distance between the first lower electrode and the second upper electrode along a given direction is smaller than a width of the first lower electrode along the given direction.

31. (New) A liquid crystal display device according to claim 30, wherein a distance between the first lower electrode and the second upper electrode along the given direction is smaller than a width of the second upper electrode along the given direction.

32. (New) A liquid crystal display device comprising:
first and second substrates with a liquid crystal layer provided therebetween;
a plurality of lower electrodes and a plurality of upper electrodes formed
overlying the first substrate, the upper electrode having an upper electrode of first type and an
upper electrode of second type, the upper electrode of first type having a portion that overlaps
with at least one lower electrode, the upper electrode of second type being provided directly
above a space defined between two lower electrodes and not overlapping the two lower
electrodes;
an insulating layer formed between the upper electrodes and the lower electrodes
to electrically isolate the upper and lower electrodes;
wherein the lower electrodes and the upper electrodes define a first region and a
second region,
wherein the first region is defined by at least one lower electrode and the upper
electrode of first type, electric field being formed in the first region by the at least one lower
electrode and the upper electrode of first type,
wherein the second region is defined by the at least one lower electrode and the
upper electrode of second type, electric field being formed in the second region by the at least
one lower electrode and the upper electrode of second type.
33. (New) A liquid crystal display device according to claim 32, wherein the
lower electrodes are wider than the upper electrodes along a given direction.
34. (New) A liquid crystal display device according to claim 33, wherein the
first region is wider than the second region along the given direction.
35. (New) A liquid crystal display device according to claim 34, wherein a
number of the upper electrodes assigned to a given pixel is more than a number of the lower
electrodes assigned to the given pixel.
36. (New) A liquid crystal display device according to claim 35, wherein the
lower electrodes comprise transparent conductive material.

37. (New) A liquid crystal display device according to claim 36, wherein the upper electrodes comprise transparent conductive material.

38. (New) A liquid crystal display device according to claim 37, wherein the upper electrode and the lower electrode are arranged in parallel.

REMARKS/ARGUMENTS

Claims 23-38 are pending. Claims 1-21 have been canceled. New claims 22-37 have been added. No new matter has been added.

CONCLUSION

In view of the foregoing, Applicants believe all claims now pending in this Application are in condition for allowance. The issuance of a formal Notice of Allowance at an early date is respectfully requested.

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